

What is claimed is:

[Claim 1] 1. A bearing arrangement (1) for mounting the spring suspension for a leaf-spring-supported bogie on a vehicle, said arrangement comprising:

a bracket (2), a leaf-spring support (4) and two bearing elements (5a, 5b);
and

each of said bearing elements (5a, 5b) comprising a plurality of conical, coaxial tubular supporting elements (10a, 10b, 10c, 10d) and at least one conical, tubular liner (11a, 11b, 11c).

[Claim 2] 2. The bearing arrangement (1) as recited in claim 1, wherein said bearing elements (5a, 5b) are restrained between the leaf-spring support (4) and the bracket (2) with a pretensioning thereby induced in the bearing elements (5a, 5b) in an axial direction thereof.

[Claim 3] 3. The bearing arrangement (1) as recited in claim 1, wherein said supporting elements (10a, 10b, 10c, 10d) vary in length in the axial direction so that an innermost supporting element (10d) is longer than an outermost supporting element (10a).

[Claim 4] 4. The bearing arrangement (1) as recited in claim 1, wherein said supporting elements (10a, 10b, 10c, 10d) are firmly connected to the liners (11a, 11b, 11c).

[Claim 5] 5. The bearing arrangement (1) as recited in claim 1, wherein said outer conical, tubular bearing element (10a) is configured with an outer surface oriented parallel to a central axis of the bearing arrangement in the axial direction.

[Claim 6] 6. The bearing arrangement (1) as recited in claim 1, wherein said inner conical, tubular bearing element (10d) is configured with an inner surface oriented parallel to a central axis of the bearing arrangement in the axial direction.

[Claim 7] 7. The bearing arrangement (1) as recited in claim 1, wherein said conical, tubular supporting elements (10a, 10b, 10c, 10d) are made of metal.

[Claim 8] 8. The bearing arrangement (1) as recited in claim 1, wherein said conical, tubular supporting elements (10a, 10b, 10c, 10d) are made of a composite material.

[Claim 9] 9. The bearing arrangement (1) as recited in claim 1, wherein said at least one conical, tubular liner (11a, 11b, 11c) is made of a rubber material.

[Claim 10] 10. The bearing arrangement (1) as recited in claim 1, wherein said at least one conical, tubular liner (11a, 11b, 11c) is made of a plastic material.

[Claim 11] 11. The bearing arrangement (1) as recited in claim 1, wherein at least one of said bearing elements (5a; 5b) is constructed from four conical, tubular supporting elements (10a, 10b, 10c, 10d) and three conical, tubular liners (11a, 11b, 11c).

[Claim 12] 12. The bearing arrangement (1) as recited in claim 1, wherein at least one of said bearing elements (5a; 5b) is constructed

from at least four conical, tubular supporting elements (10) and at least three conical, tubular liners (11).

[Claim 13] 13. A method for mounting a spring suspension of a leaf-spring-supported bogie to a vehicle, said method comprising:

providing a bearing arrangement comprising a bracket (2), a leaf-spring support (4) and two bearing elements (5a, 5b), and each of said bearing elements (5a, 5b) comprising a plurality of conical, coaxial tubular supporting elements (10a, 10b, 10c, 10d) and at least one conical, tubular liner (11a, 11b, 11c);

mounting said two conical bearing elements between said bracket and said leaf-spring support; and

– mechanically adjusting a clamping device so that the bearing elements are prestressed in the axial direction.

[Claim 14] 14. A vehicle comprising:

two rear axles, two brackets (2) and two leaf springs, and wherein said rear axles are respectively mounted at two ends of the leaf springs; and

each of said leaf springs being mounted on said brackets (2) by a bearing arrangement comprising a bracket (2), a leaf-spring support (4) and two bearing elements (5a, 5b), and each of said bearing elements (5a, 5b) comprising a plurality of conical, coaxial tubular supporting elements (10a, 10b, 10c, 10d) and at least one conical, tubular liner (11a, 11b, 11c).